

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: P166456

Luminaire Tested: **HU1036D940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P166456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25789)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HU1036D940MB
Description: HALO HU10 LED UNDERCABINET FIXTURE
36 INCH LENGTH WITH MATTE BLACK FINISH
Light Source: (48) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

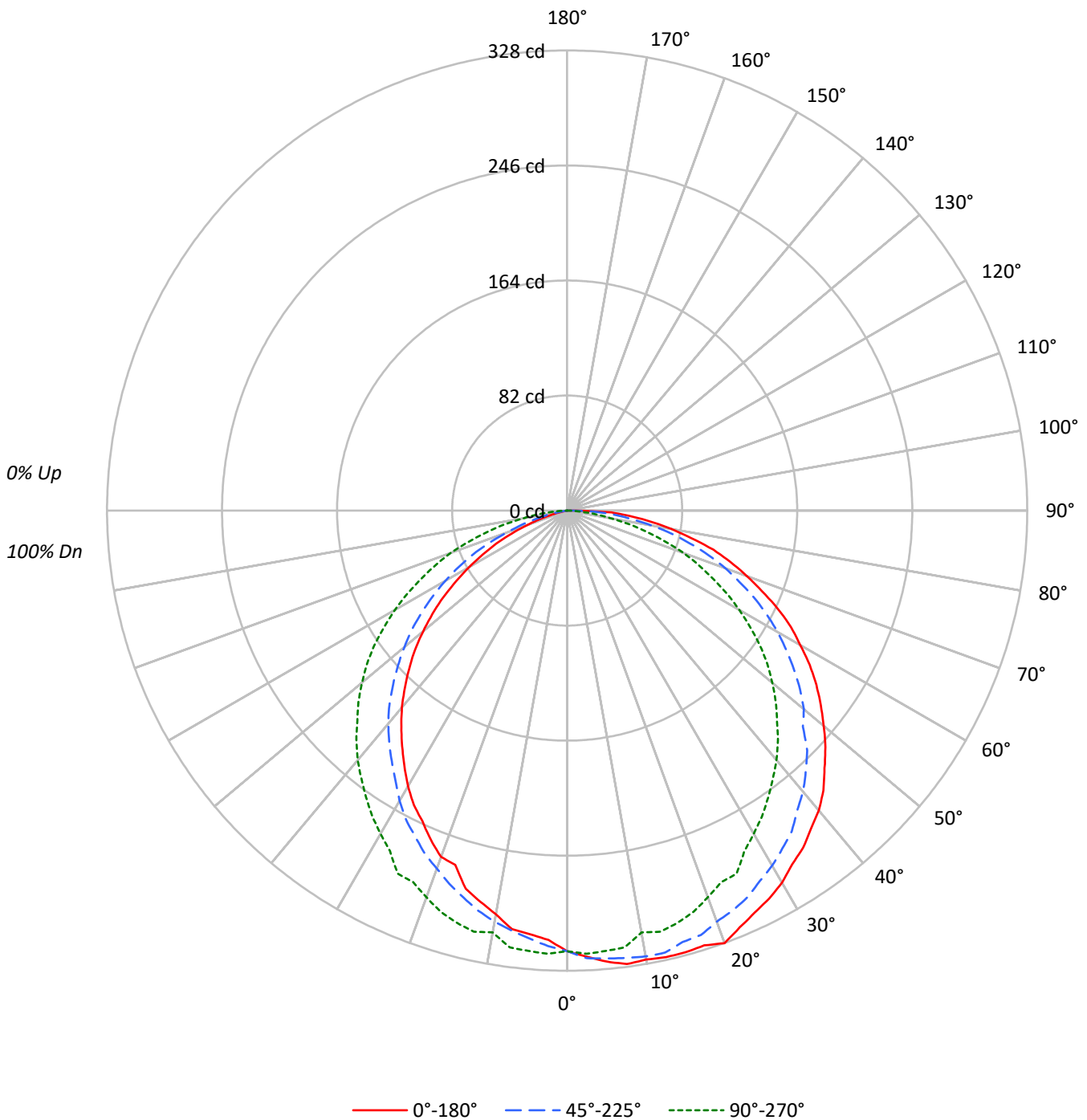
Lumens per Lamp: N/A
Luminaire Lumens: 896.7 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 3' x L: 0.1' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P166456
CATALOG NUMBER: HU1036D940MB

Luminous Intensity Polar Plot





TEST NUMBER: P166456

CATALOG NUMBER: HU1036D940MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10816	10816	10816
5°	11158	10895	10480
10°	11364	10678	10220
15°	11625	10848	9953
20°	12027	10751	9629
25°	12017	10854	9281
30°	12182	10580	9021
35°	12333	10500	8620
40°	12549	10441	8237
45°	12641	10303	7755
50°	12796	10224	7186
55°	13025	10083	6480
60°	13220	9762	5559
65°	13505	9332	4532
70°	13727	8893	3072
75°	14360	7839	1451
80°	14916	6268	0
85°	17666	4308	0



TEST NUMBER: P166456
 CATALOG NUMBER: HU1036D940MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	3.3
10°-20°	85.2	9.5
20°-30°	129.0	14.4
30°-40°	155.4	17.3
40°-50°	161.4	18.0
50°-60°	145.9	16.3
60°-70°	110.1	12.3
70°-80°	61.5	6.9
80°-90°	18.4	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	243.9	27.2
0°-40°	399.3	44.5
0°-60°	706.6	78.8
0°-90°	896.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	896.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	314	314	314	314	314	
5°	323	320	315	306	303	31
15°	326	318	304	286	279	92
25°	316	304	286	256	244	146
35°	293	279	250	218	205	183
45°	260	242	212	176	159	201
55°	217	197	168	126	108	194
65°	166	147	114	74	56	163
75°	108	90	59	23	11	112
85°	45	34	11	0	0	47
90°	0	0	0	0	0	



TEST NUMBER: P166456

CATALOG NUMBER: HU1036D940MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	314.0	314.0	314.0	314.0	314.0	314.0	314.0	314.0	314.0
2.5°	318.3	315.1	319.4	316.2	316.2	312.9	310.7	307.4	306.3
5°	322.7	317.2	320.5	316.2	315.1	309.6	306.3	303.1	303.1
7.5°	326.0	319.4	321.6	316.2	314.0	307.4	302.0	298.7	300.9
10°	324.9	319.4	322.7	316.2	305.3	303.1	297.6	294.4	292.2
12.5°	326.0	319.4	322.7	312.9	307.4	299.8	292.2	286.7	285.6
15°	326.0	320.5	318.3	310.7	304.2	293.3	285.6	281.3	279.1
17.5°	324.9	318.3	317.2	307.4	299.8	287.8	279.1	273.6	264.9
20°	328.1	315.1	311.8	303.1	293.3	281.3	271.5	264.9	262.7
22.5°	321.6	311.8	308.5	298.7	286.7	274.7	264.9	256.2	254.0
25°	316.2	307.4	304.2	292.2	285.6	267.1	256.2	247.5	244.2
27.5°	311.8	304.2	297.6	287.8	273.6	259.5	248.6	238.8	236.6
30°	306.3	298.7	292.2	280.2	266.0	250.7	238.8	228.9	226.8
32.5°	298.7	292.2	285.6	273.6	258.4	242.0	227.9	219.1	215.9
35°	293.3	284.5	279.1	264.9	249.7	233.3	218.0	208.2	205.0
37.5°	285.6	278.0	269.3	257.3	240.9	222.4	208.2	197.3	194.1
40°	279.1	269.3	261.6	247.5	232.2	213.7	198.4	186.4	183.2
42.5°	270.4	261.6	251.8	238.8	222.4	202.8	187.5	175.5	171.2
45°	259.5	251.8	242.0	228.9	211.5	191.9	175.5	163.5	159.2
47.5°	249.7	243.1	227.9	216.9	201.7	181.0	163.5	150.4	147.2
50°	238.8	235.5	220.2	207.1	190.8	169.0	151.5	138.5	134.1
52.5°	227.9	221.3	209.3	196.2	179.9	158.1	139.5	126.5	121.0
55°	216.9	209.3	197.3	185.3	167.9	145.0	126.5	114.5	107.9
57.5°	205.0	198.4	185.3	172.3	154.8	133.0	113.4	99.2	93.8
60°	191.9	185.3	173.3	159.2	141.7	119.9	100.3	86.1	80.7
62.5°	179.9	172.3	160.3	147.2	128.6	105.7	87.2	73.0	67.6
65°	165.7	159.2	147.2	133.0	114.5	92.7	74.1	60.0	55.6
67.5°	150.4	145.0	133.0	119.9	101.4	79.6	60.0	46.9	42.5
70°	136.3	131.9	119.9	105.7	88.3	66.5	45.8	34.9	30.5
72.5°	122.1	116.7	105.7	91.6	73.0	52.3	33.8	24.0	20.7
75°	107.9	101.4	90.5	77.4	58.9	39.2	22.9	13.1	10.9
77.5°	90.5	86.1	76.3	63.2	45.8	26.2	13.1	5.5	3.3
80°	75.2	70.9	61.1	48.0	31.6	15.3	4.4	1.1	0.0
82.5°	60.0	56.7	45.8	34.9	20.7	6.5	0.0	0.0	0.0
85°	44.7	41.4	33.8	21.8	10.9	1.1	0.0	0.0	0.0
87.5°	31.6	28.3	20.7	12.0	3.3	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)